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24956	7590 10/24/2003		EXAMINER	
	LY, STANGER & MAL ONAL ROAD	PATEL, G	PATEL, GAUTAM	
SUITE 370 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2655	~
			DATE MAILED: 10/24/2003	3 8

Please find below and/or attached an Office communication concerning this application or proceeding.

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			1.			
		Application No.	Applicant(s)			
Office Action Summary		09/512,822	TATSUNO ET AL.			
		Examiner	Art Unit			
		Gautam R. Patel	2655			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply but within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	e timely filed  days will be considered timely. rom the mailing date of this communication.  DNED (35 U.S.C. & 133)			
1)⊠	Responsive to communication(s) filed on 22 S	September 2003 .				
2a)⊠		is action is non-final.				
3)□	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
	ion of Claims					
	Claim(s) 1-12 and 20-27 is/are pending in the	• •				
	4a) Of the above claim(s) is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
	Claim(s) <u>1-12 and 20-27</u> is/are rejected.					
	- ,					
	Claim(s) are subject to restriction and/or for Papers	r election requirement.				
	The specification is objected to by the Examine	•				
	The drawing(s) filed on is/are: a)☐ accep		vaminer			
,						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority u	ınder 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
* S	3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the control of the control of the certified of the certified of the certified of the certified copies of the prior of the certified copies of th	eau (PCT Rule 17.2(a)).	_			
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
а	)  The translation of the foreign language pro Acknowledgment is made of a claim for domesti	visional application has been i	received.			
Attachmen		. ,	· <b>- · ·</b>			
2) 🔲 Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)			

## Response to Amendment

1. This is in response to amendment filed on 9-22-03 ( Paper # 7).

2. Claims 1-12 and 20-27 remain for examination.

## Claim Objections

3. Claim 5 is objected for following reasons.

Claim 5 line 17 refers to "laser <u>beans</u>". It is assumed that a typographical error was made and the Applicants are trying to claim "laser beams". Examination is done based on aspect of laser beams.

Corrections and/or explanations are required.

## Claim Rejections - 35 U.S.C. § 112

4. The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 2 is rejected under 35 U.S.C. § 112, <u>first paragraph</u>, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention.

1. Page 11, lines 3-9 simply states that "photodetector 9 [presumably 'third detector'] monitors quantities of light beams emitted from the laser chips 4a and 4b". Also page 15 lines 5-9, states that photodetector is monitoring the quantity of light, NOT the beam itself. The specification does not disclose at all that "a third beam [itself, reflected or not] monitors, or can

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monitor the quantity of light from the first or second laser light". Also third beam does not exist.

- 2. Claims 6-7 are rejected under 35 U.S.C. § 112, <u>first paragraph</u>, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventors, at the time the application was filed, had possession of the claimed invention. Page 7, lines 22 simply states that "the laser chips 4a and 4b". The specification does not disclose at all "a third laser light source".
- 5. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. § 112, <u>second paragraph</u>, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

- 1. Claim 2, lines 11-13 "a third beam, reflected back to the third photodetector means, for monitoring the quantity of light emitted from ..", is confusing and unclear. It not clear how can a beam [reflected back to third detector or otherwise] itself monitor quantity of light, especially when third beam is not defined.
- 2. Claim 6, lines 21-22 the scope of "said .... third laser light sources" lacks proper antecedent basis. Also third light source does not exist.

#### Claim Rejections - 35 U.S.C. § 103

6. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

7. Claims 1, 3-7, 10-12 and are rejected under 35 U.S.C. § 103(a) as being unpatentable over Nemoto, US. patent 6,314,063 (hereafter Nemoto) in view of Ishihara, US. patent 5,978,404 (hereafter Ishihara) and Kume, US. patent 5,727,111 (hereafter Kume).

As to claim 1, Nemoto discloses the invention as claimed [see Figs. 1-24, especially fig. 6 and 2], including an optical head, a first photodetector, a second photodetector and two light sources comprising:

a first photodetector means [fig. 6, unit 5] for obtaining out-of-focus detection signals based on the laser beams which have returned after being reflected by a surface of said recording medium, a second photodetector means [fig. 6, unit 6] for obtaining a tracking error detection signal and an information reproduction signal [col. 6, lines 21-44]; and

in said first photodetector means, a first detecting means [fig. 8, regions a to h] for detecting the out-of-focus detection signal [focus error signal FE] based on the laser beam from the first laser light source, and second detecting means [fig. 8, regions a to h] [col. 5, line 43 to col. 6, line 26] for detecting the out-of-focus detection signal based on the laser beam from the second laser light source are spaced away [col. 6, lines 21-26] from each other [col. 7, lines 22 to col. 8, line 5].

Nemoto discloses all of the above elements including a laser diode 10 [fig. 6]. Nemoto does not specifically disclose well known details of the diode sending two

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different frequencies or an equivalent dual laser diode structure producing two different frequency and associated hardware. However Ishihara system is designed to be used with CD and DVD [col. 1, lines 26-38], one of ordinary skill in the at would have realized tat Nemoto's system inherently has two wavelengths in the diode, one for CD and one for DVD. Also Ishihara clearly discloses:

a first laser light source [fig. 1, unit 4] having a first oscillation wavelength [635 nm] for reading or recording data from a recording medium and a second laser light source [fig. 1, unit 5] having a second oscillation wavelength [780 nm] different from the first oscillation wavelength, said first and second laser light sources being mounted in a recess formed in a substrate [col. 6, lines 48-60] a surface of which has been partially removed [col. 2, lines 55-65 and col. 3, lines 40-61];

a mirror [fig. 1, unit 13] constituting a part of said recess, and arranged to reflect laser beams emitted from said first and second laser light sources to be outputted in a direction away from and normal to the substrate surface [col. 6, line 35 to col. 7, line 5];

Both Nemoto, and Ishihara are interested providing proper signals in dual serving [for CD and DVD] system environment both are showing an integrated system where components are placed monolithically next to each other to sane space and reduce noise in the system.

It would have been obvious to provide the system of Nemoto with dual laser source and associated details as taught by Ishihara. The application or use of the dual laser source and associated details as taught by Ishihara would have been obvious, because the dual laser source performs the same function in the same way as the single laser source and associated details of Nemoto's system, and is an equivalent element. One of ordinary skill in the art would have recognized that the dual laser source and associated details of Ishihara was equivalent and an obvious alternative to the single laser source and associated details of system of Nemoto.

Combination of Nemoto and Ishihara discloses all of the above elements, including dual power source of two wavelengths and dual photosensors one for focus control and another one for tracking control. Combination of Nemoto and Ishihara does

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not specifically disclose a third photodetector for monitoring the quantity of light emitted form either laser diodes to the extent claimed.

However, it is well known in the art that by monitoring the light amount of the laser optical disc can be accurately controlled. Also, Kume clearly discloses:

a third photodetector [fig. 15, unit 53g] means for monitoring the quantity of light emitted from the first or the second laser light source, are provided [col. 14, lines 2-21].

Both combination of Nemoto and Ishihara and Kume are interested in improving the quality of signals in an optical head and providing smooth read and write signals.

One of ordinary skill in the art at the time of invention would have realized that it would be advantageous to provide stable operation of the disc and also a stability of the playback operation in an optical system. Therefore, it would have been obvious to have used a third light detector in the system of Nemoto and Ishihara as taught by Kume because one would be motivated to provide accurate control of the disc and improve stability of the playback operation of the pickup [col. 14, lines 16-21; Kume].

### 8. As to claim 3, Nemoto discloses:

said recording medium is any one of an optical information recording and reproducing medium, an optical information reproducing medium, a magneto-optic information recording and reproducing medium, a magneto-optic information reproducing medium, an optical information recording and reproducing disc, an optical information reproducing disc, a magneto-optic information recording and reproducing disc, and a magneto-optic information reproducing disc [col. 2, line 47 to col. 3, line 14].

## 9. As to claim 4, Ishihara discloses:

a laser light source having an oscillation wavelength of 635 or 650 nm is used in the case where the recording medium is a DVD medium, while a laser light source having an oscillation wavelength of 780 nm is used in the case where the recording medium is a CD medium [col. 1, lines 15-25 and col. 3, lines 40-61].

NOTE: Ishihara does not exactly discloses that DVD wavelength is 660 nm. However one of ordinary skill in the art knows that wavelength for DVD has been in the range of

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630 to 680 nm and depending upon application these wavelengths are routinely used. Older version use higher wavelengths and newer versions use lower wavelengths. So having exact 660 nm does not constitute a patentable differentiation as long as that wavelength is applicable to DVD.

### 10. As to claim 5, Ishihara discloses:

a first photodetector means [fig. 6, unit 5] for obtaining out-of-focus detection signals, second photodetector means [fig. 6, unit 6] for obtaining a tracking error detection signal and an information reproduction signal [col. 6, lines 21-44],

wherein said first photodetector means having means for detecting the out-of-focus detection signal based on the beam from the first laser light source and means for detecting the out-of-focus detection signal based on the beam from the second laser light source [col. 7, lines 22 to col. 8, line 5];

Nemoto discloses all of the above elements including a laser diode 10 [fig. 6]. Nemoto does not specifically disclose well known details of the diode sending two different frequencies or an equivalent dual laser diode structure producing two different frequency and associated hardware. However Ishihara system is designed to be used with CD and DVD [col. 1, lines 26-38], one of ordinary skill in the at would have realized tat Nemoto's system inherently has two wavelengths in the diode, one for CD and one for DVD. Also Ishihara clearly discloses:

a first laser light source [fig. 1, unit 4] having a first oscillation wavelength [635 nm] for reading data from a recording medium and a second laser light source [fig. 1, unit 5] having a second oscillation wavelength [780 nm] different from the first oscillation wavelength, said first and second laser light sources being mounted in a recess [col. 6, lines 48-60] formed partially in a surface of a substrate [col. 2, lines 55-65 and col. 3, lines 40-61];

said first and second oscillation wavelengths being each determined in accordance with the type of said recording medium, [CD or DVD] [col. 1, lines 11-48], wherein said laser light sources are used selectively in accordance with the type of the recording medium and in conformity with a read wavelength [col. 3, lines 40-61];

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a mirror [fig. 1, unit 13] constituting a part of said recess and arranged to reflect laser beams emitted from said first and second laser light sources to be outputted in a direction away from and normal to the substrate surface [col. 6, line 35 to col. 7, line 5].

Both Nemoto, and Ishihara are interested providing proper signals in dual serving [for CD and DVD] system environment both are showing an integrated system where components are placed monolithically next to each other to sane space and reduce noise in the system.

It would have been obvious to provide the system of Nemoto with dual laser source and associated details as taught by Ishihara. The application or use of the dual laser source and associated details as taught by Ishihara would have been obvious, because the dual laser source performs the same function in the same way as the single laser source and associated details of Nemoto's system, and is an equivalent element. One of ordinary skill in the art would have recognized that the dual laser source and associated details of Ishihara was equivalent and an obvious alternative to the single laser source and associated details of system of Nemoto.

Combination of Nemoto and Ishihara discloses all of the above elements, including dual power source of two frequencies and dual photosensors one for focus control and another one for tracking control. Combination of Nemoto and Ishihara does not specifically disclose a third photodetector for monitoring the quantity of light emitted form either laser diodes to the extent claimed.

However, it is well known in the art that by monitoring the light amount of the laser optical disc can e accurately controlled. Also, Kume clearly discloses:

a third photodetector [fig. 15, unit 53g] means for monitoring the quantity of light emitted from the first or the second laser light source, are provided [col. 14, lines 2-21].

Both combination of Nemoto and Ishihara and Kume are interested in improving the quality of signals in an optical head and providing smooth read and write signals.

One of ordinary skill in the art at the time of invention would have realized that it would be advantageous to provide stable operation of the disc and also a stability of the playback operation in an optical system. Therefore, it would have been obvious to have used a third light detector in the system of Nemoto and Ishihara as taught by Kume

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because one would be motivated to provide accurate control of the disc and improve stability of the playback operation of the pickup [col. 14, lines 16-21; Kume].

- 11. As to claim 6, it is rejected for the similar reasons set forth in the rejection of claim 5, <u>supra</u>. As to added limitation of forming all three light sources being formed monolithically on the substrate. Since third light source does not exist that limitation is moot. Also see paragraphs 5 & 6, supra.
- 12. As to claim 7, Ishihara discloses: said first and second laser light sources are disposed adjacent each other so as to permit a single optical path to be used in the optical head [col. 3, lines 40-61].
- 13. As to claim 10, it is rejected for the similar reasons set forth in the rejection of claims 1 and 5, <u>supra</u>.

As to the added limitation, Ishihara discloses: said first or second laser light source and said mirror which extend from a bottom of said recess to the outside of the recess are in a spatial arrangement relation such that a laser beam portion wider than a full width at half maximum in an intensity distribution of the laser beam emitted from the first or the second laser light source is reflected by the mirror [col. 6, lines 34-60].

- 14. As to claim 11, it is rejected for the similar reasons set forth in the rejection of claims 1 and 10, supra.
- 15. As to claim 12, it is rejected for the similar reasons set forth in the rejection of claims 1 and 10, <u>supra</u>.
- 16. Claims 8-9 and 21-27 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Nemoto, Ishihara and Kume as applied to claims 1, 3-7, 10-12 above and further in view of Kawachi et al., US. patent 4,750,799 (hereafter <u>Kawachi</u>).

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As to claim 8, combination of Nemoto, Ishihara and Kume discloses all of above described elements including, a first and second laser sources of different wavelength, first second and third photodetectors, one for focus control and another one for tracking control and third for light amount monitoring, as disclosed above. Also Kume clearly discloses that all the components are deposited on as ingle substrate and are enclosed in a closed unit [unit 25]. The combination of Nemoto, Ishihara and Kume does not disclose well known details of layout of components when they are placed in single unit and/or a single substrate [hybrid design]. However one of ordinary skill in the art knows that when components are placed on a single substrate, alignment marks inherently necessary on the components and on substrate so as to distinguish where each component goes with respect to each other and with respect to surface of the substrate. In short these markings for alignment are inherently necessary for any kind of substrate related layout. Also Kawachi clearly discloses:

substrate and said first laser light source are optically aligned with each other on the basis of alignment marks affixed to the substrate and the first laser light source, respectively; laser beams emitted from said first laser light sources are adapted to be reflected by a mirror constituting a part of said recess and to be outputted in a normal direction of the substrate surface or in a direction away from the substrate surface [col. 5, lines 19-42 and col. 14, line 19 to col. 7, line 5].

NOTE: Kawachi discloses only one light source [laser 3] and alignment of this source. Kawachi does not disclose second light source and its alignment. However one of ordinary skill in the art would have been able to incorporate second light source and many other necessary components in system of Kawachi from the teaching of Kawachi [col. 15, lines 1-5], because Kawachi teaches that his system can be adopted to incorporate many more lasers light detectors and wavelength filters.

All combination of Nemoto, Ishihara, Kume and Kawachi are interested in improving the quality of signals in an optical head and providing smooth read and write signals and providing best platform for implementing components on the same substrate.

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One of ordinary skill in the art at the time of invention would have realized that it would be advantageous and necessary to provide a smooth and correct layout of multiple components on a single substrate. Therefore, it would have been obvious to have used alignments marks for various components and substrate itself in the system of Nemoto, Ishihara and Kume as taught by Kawachi because it would have provided a practical vehicle for layout of the component on such a small scale layout of a single substrate and thus saving time and expense of layout of multiple components. Also, these provision of alignment marks is well within the ability of one of ordinary skill in the art, these are well known tools and therefore they do constitute a patentable limitation as such.

17. As to claim 9, Kume discloses:

said second and third photodetector means have photodetection sensitivity for the laser beams of the first and second oscillation wavelengths [col. 13, line 27 to col. 14, line 21].

- 18. As to claim 21, it is rejected for the similar reasons set forth in the rejection of claim 8, <u>supra</u>.
- 19. As to claim 22, it is rejected for the similar reasons set forth in the rejection of claim 8, <u>supra</u>.
- 20. As to claim 23, it is rejected for the similar reasons set forth in the rejection of claims 8 and 10, <u>supra</u>.
- 21. As to claim 24, it is rejected for the similar reasons set forth in the rejection of claim 1, <u>supra</u>.

As to the added limitation, Ishihara discloses:

wherein an amplifier for amplifying light currents from said photosensors is formed monolithically on said semiconductor substrate [col. 6, lines 1-20].

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And Kawachi discloses:

an alignment mark is affixed to one or both of said semiconductor substrate or said semiconductor lasers [col. 14, line 19 to col. 15, line 5]..

22. As to claim 25, it is rejected for the similar reasons set forth in the rejection of claim 24, <u>supra</u>.

As to the added limitation that alignment is made by image processing with use of a transmitted or reflected light of infrared light is not disclosed by any of cited references. However use infrared for image processing has been known since 1957, and is inherent part of the image processing, and therefore does not constitute patentable distinction as such.

23. As to claim 26, it is rejected for the similar reasons set forth in the rejection of claim 22, <u>supra</u>.

As to the added limitation Kawachi discloses:

a material superior in thermal conductivity is disposed in a contact portion between the semiconductor lasers and the semiconductor substrate [col. 14, lines 9-19].

24. As to claim 27, it is rejected for the similar reasons set forth in the rejection of claim 22, <u>supra</u>.

As to the added limitation Kawachi discloses:

a material having a stress relaxing effect is disposed in a contact portion between the semiconductor lasers and the semiconductor substrate.[col. 14, lines 9-19].

25. A search based on the best understanding of the claims has been made to find the most pertinent art, but no statement about invention will be appropriate at this time regarding the allowableness of claim 2 and no art rejection will be made in this office action regarding the claims 2, due to the heavy speculation required to

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interpret the claims because of their indefiniteness under 35 U.S.C. 112, 1st and 2nd paragraphs as noted above (see In re Steele, 134 USPQ 292).

- 26. Applicant's arguments filed on 9-22-03 ( Paper # 7) have been fully considered but they are not deemed to be persuasive for the following reasons.
- 27. In the REMARKS, the Applicant argues as follows:
- A) That: "the Examiner misinterprets the scope of the passage noted in claim 2. Literally, the noted passage recites, "a third beam for monitoring the quantity of light emitted from the first or the second laser light source." .... the third beam is used for monitoring the quantity of light emitted from the first or the second laser light source. ... Thus, claim 2 does not recite that the third beam "monitors" the quantity of light, but that the third beam is used for "monitoring" the quantity of light. In other words, the noted passage is not intended to invoke the sixth paragraph of § 112." [page 19-20; REMARKS].

FIRST: The Examiner is simply reading what is being claimed, not how that may or may not be interpreted. Claim 2 still reads "third beam, reflected back to the third photodetector means, for monitoring the quantity of light". It does NOT state that third beam <u>is used</u> for monitoring.

SECOND: The Applicants are pointing to page 14 and 15 to support their argument. NO place in those pages a "**third beam**" is defined. Only beams 6a and 6b are referred to.

THIRD: The examiner has <u>not</u> used sixth paragraph of 112, so argument regarding that point is moot. The Examiner has only used 112 first and second for rejection.

B) That: "one sees that none of the applied references teaches the claimed mount of a mirror and laser sources in a recess." [pg. 21, para. 3; REMARKS].

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FIRST: Ishihara was used for this limitation, not Nemoto or Kume.

SECOND: Ishihara clearly discloses: mirror member [unit 13] and reflective surface 113 [which works as a mirror] [see col. 6, lines 34-60]. Nemoto also very clearly discloses recess [recess 11] which contains these mirror and reflective surface [see fig. 2 and 4].

C) That: "However, Kawachi also does not teach the claimed mirror and laser sources mounting in a substrate recess, as discussed above. [pg. 22, para. 2; REMARKS].

The Applicants are correct that Kawachi does not teach these aspects. However Kawachi was NOT used for these limitations, Ishihara was.

28. THIS ACTION IS MADE FINAL. See M.P.E.P. § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a). A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

#### Contact information

29. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gautam R. Patel whose telephone number is

(703) 308-7940. The examiner can normally be reached on Monday through Thursday from 7:30 to 6.

The appropriate fax number for the organization (Group 2650) where this application or proceeding is assigned is (703) 872-9314.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Doris To can be reached on (703) 305-4827.

Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist whose telephone number is (703) 305-4700 or the group Customer Service section whose telephone number is (703) 306-0377.

arlay

Gautam R. Patel Patent Examiner Group Art Unit 2655

October 22, 2003